

Street Flooding* – No Net Rise

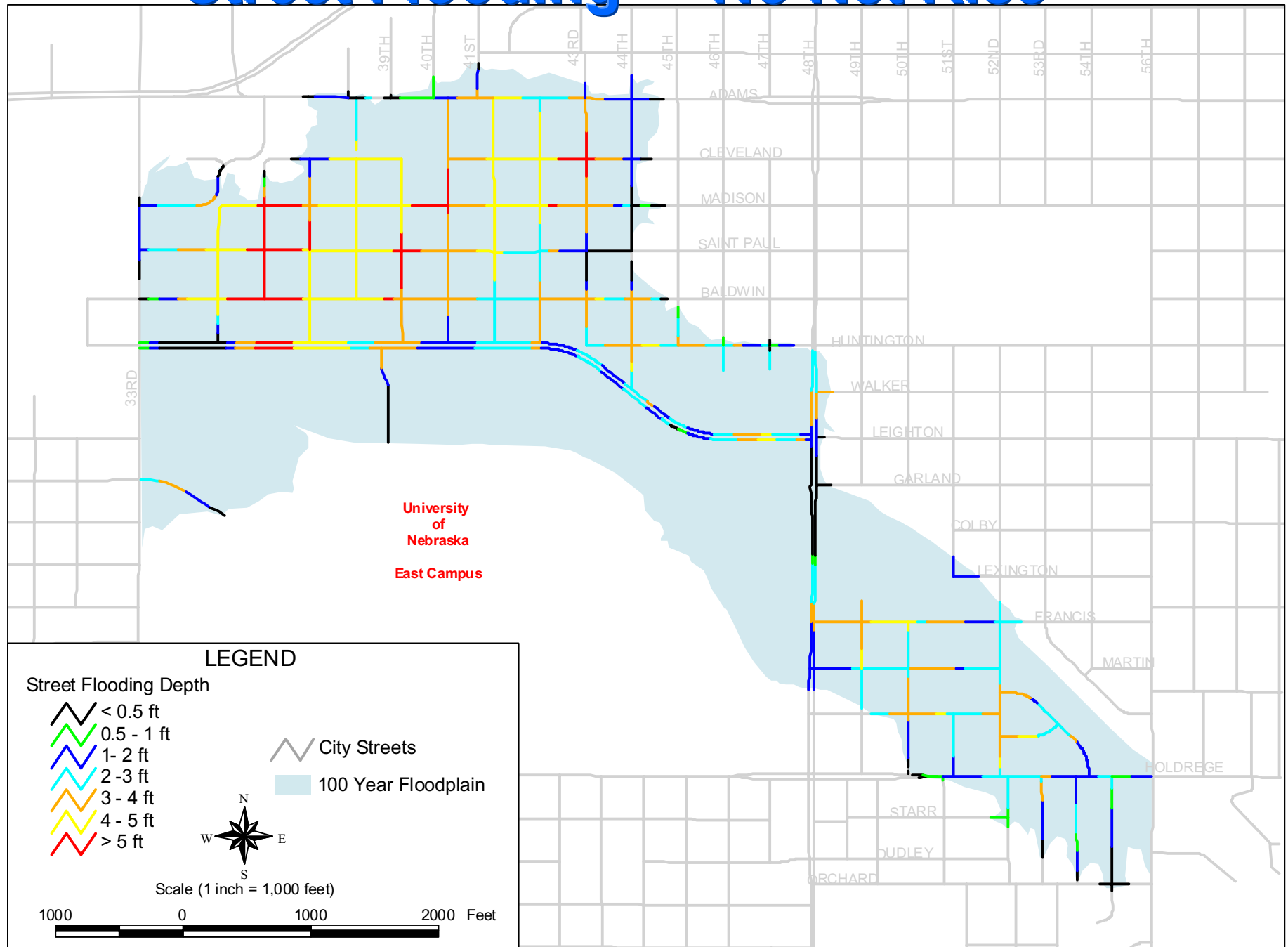


Figure XX
Street Flooding for No Net Rise Scenario

Street Flooding* – 0.5 ft Rise

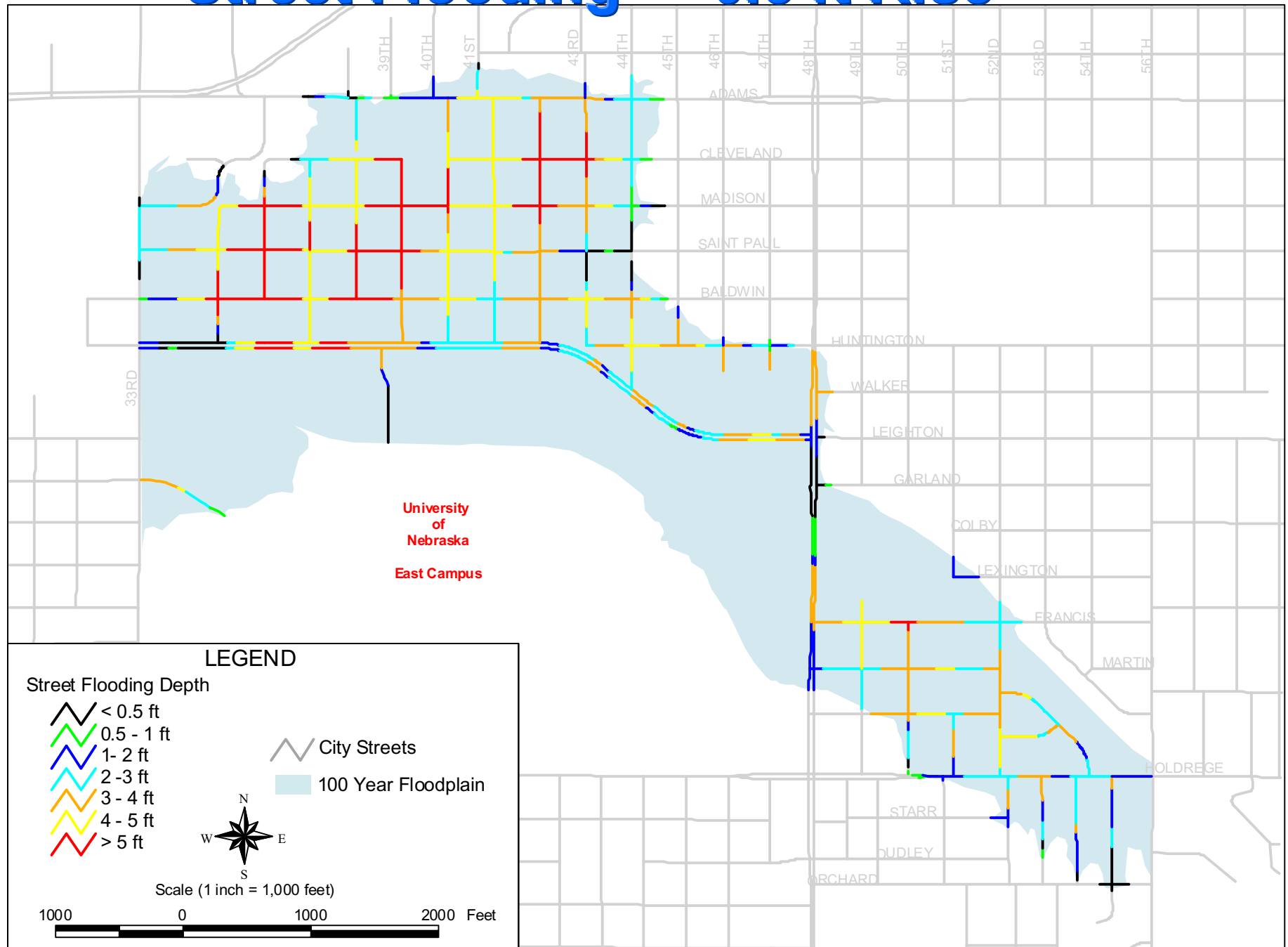


Figure XX
Street Flooding for 0.5 ft Rise Scenario

Street Flooding* – 1.0 ft Rise

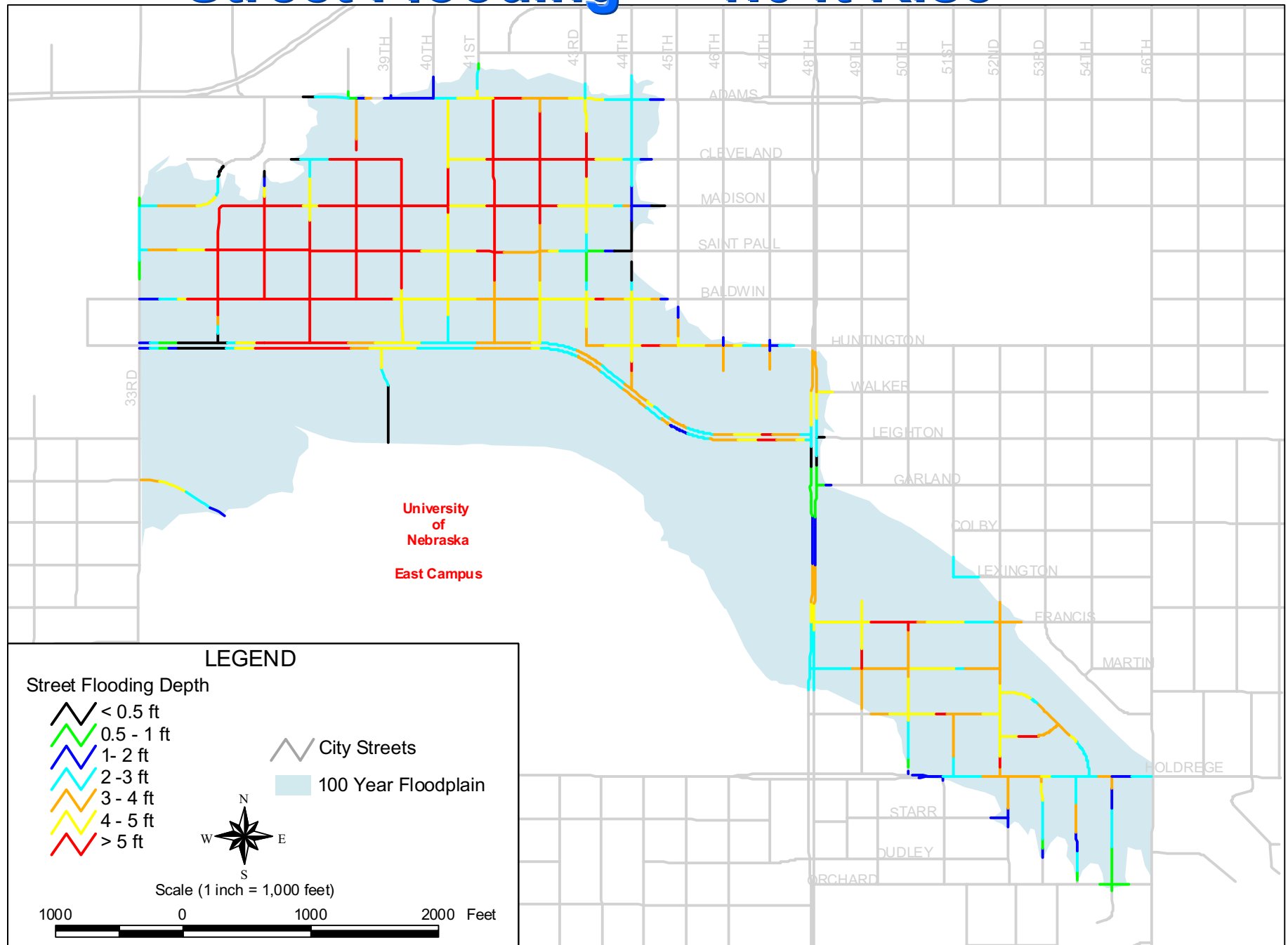


Figure XX

Street Flooding for 1.0 ft Rise

Severity of Street Flooding

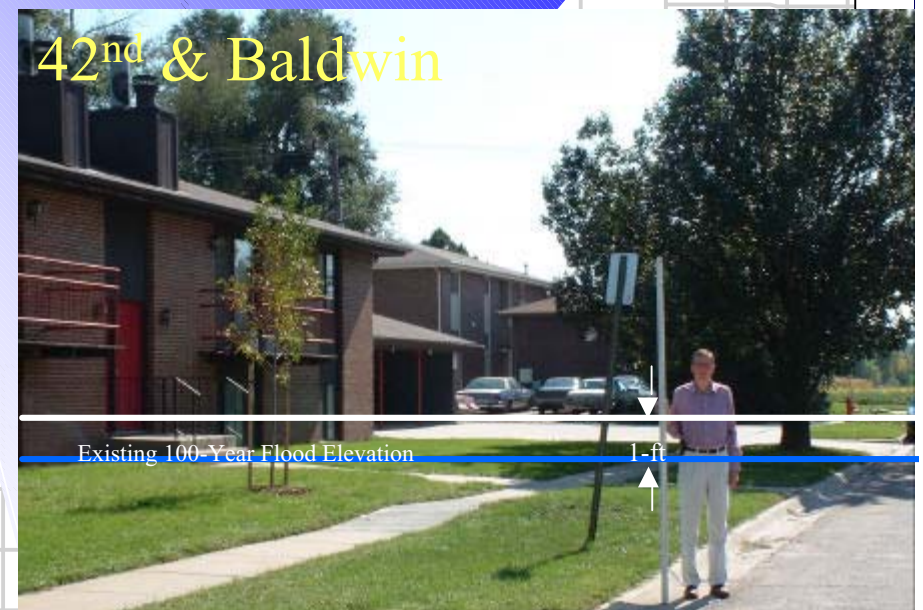
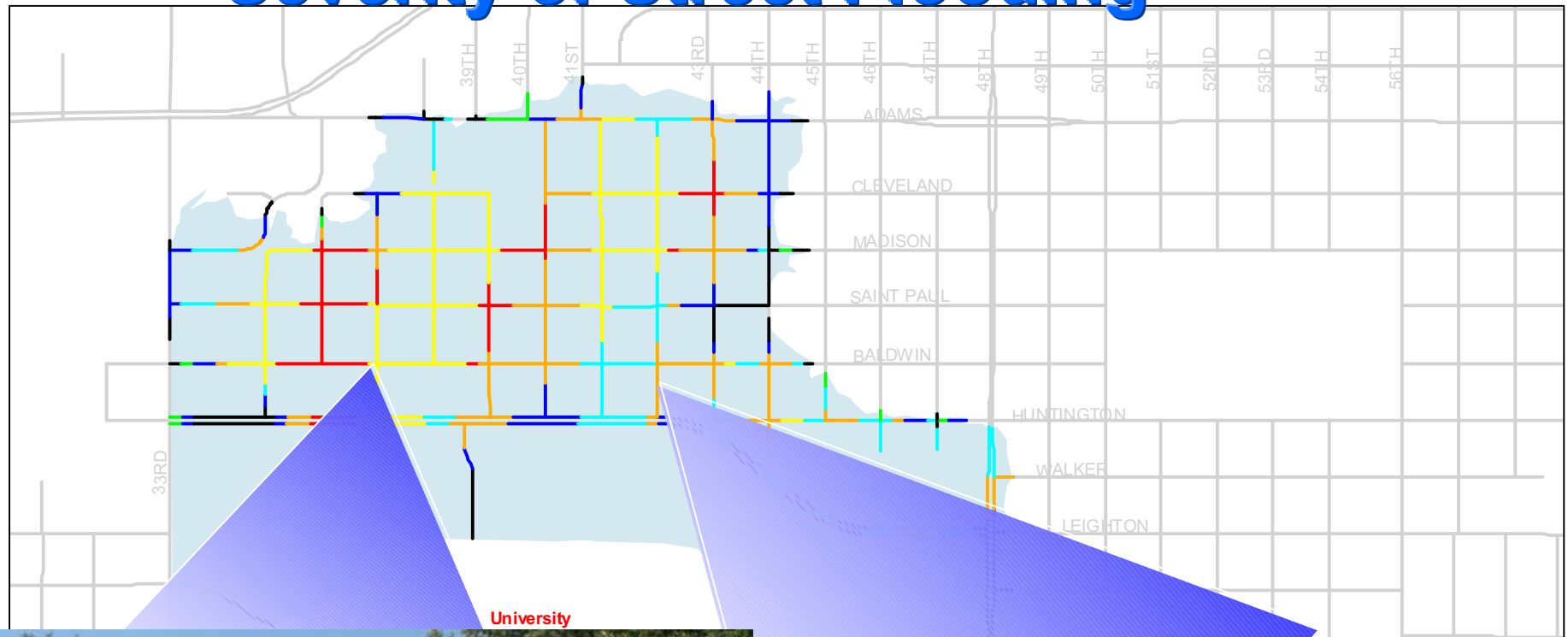


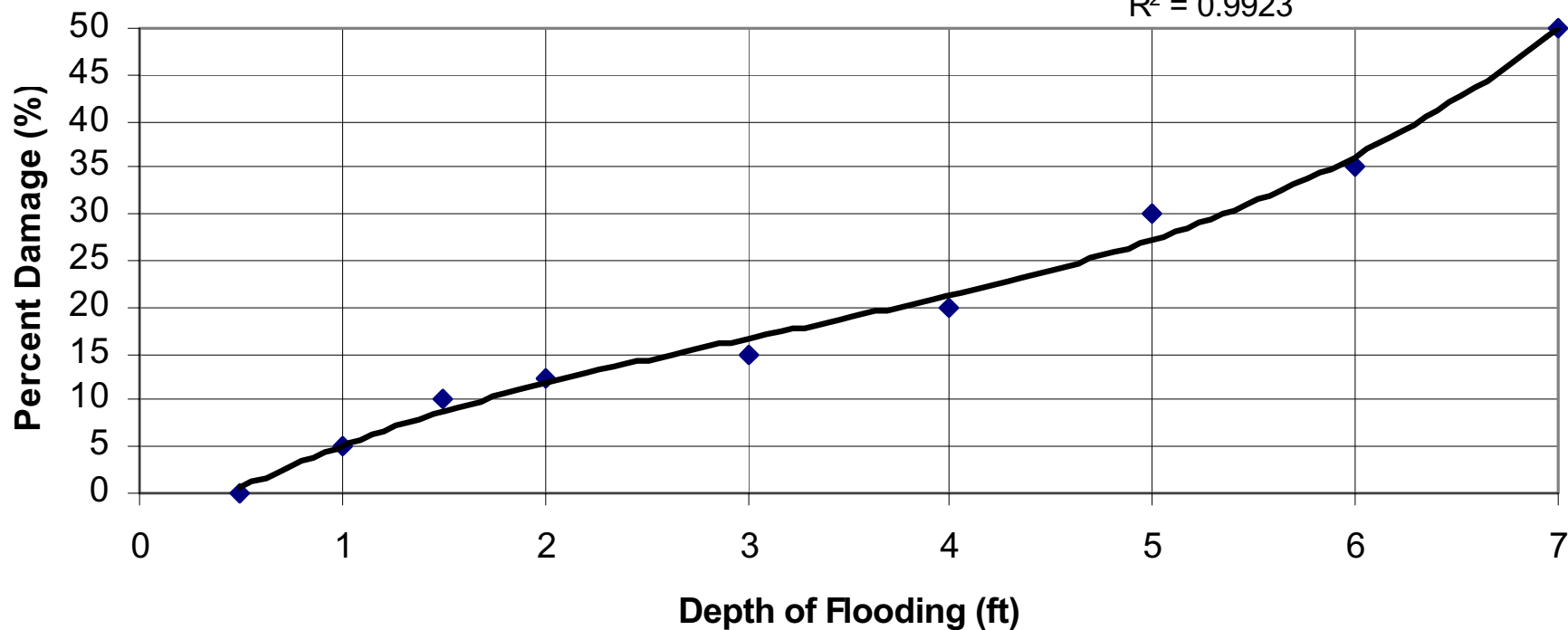
Figure XX
Street Flooding for No Net Rise Scenario

Street Flooding Depth Damage Curve

Street Flood Damage Curve

$$y = 0.2676x^3 - 2.5196x^2 + 12.366x - 5.0159$$

$$R^2 = 0.9923$$



Public Access Street Costs

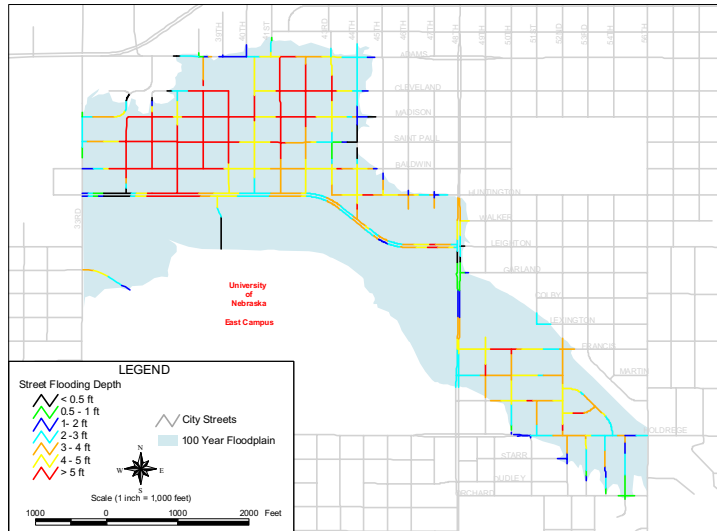
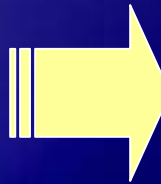


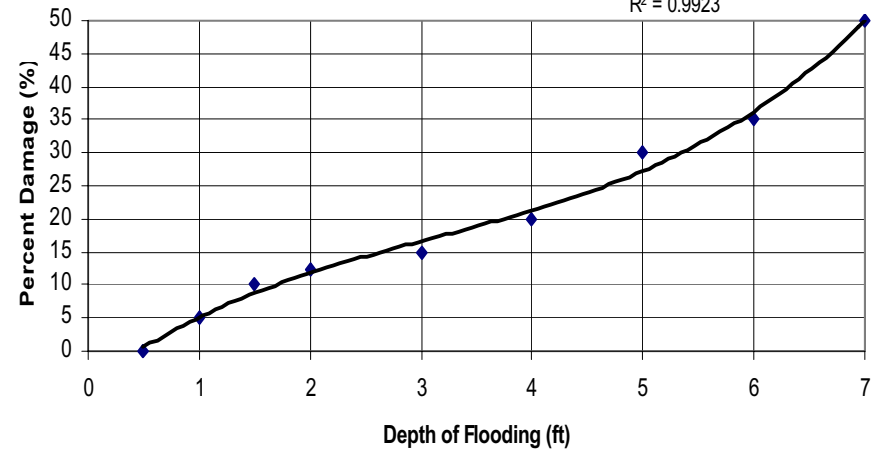
Figure XX
Street Flooding for 1.0 ft Rise Scenario



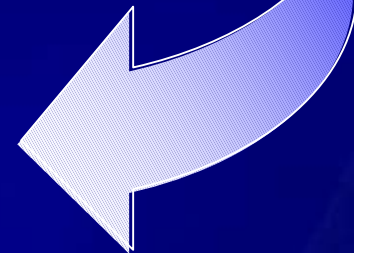
Street Flood Damage Curve

$$y = 0.2676x^3 - 2.5196x^2 + 12.366x - 5.0159$$

$$R^2 = 0.9923$$



Management Scenario	Total Length (ft)	Cost
No Net Rise	69,863	\$1,981,000
0.5-ft Rise	70,747	\$2,320,000
1.0-ft Rise	75,524	\$2,707,000



Stream Crossing Structures

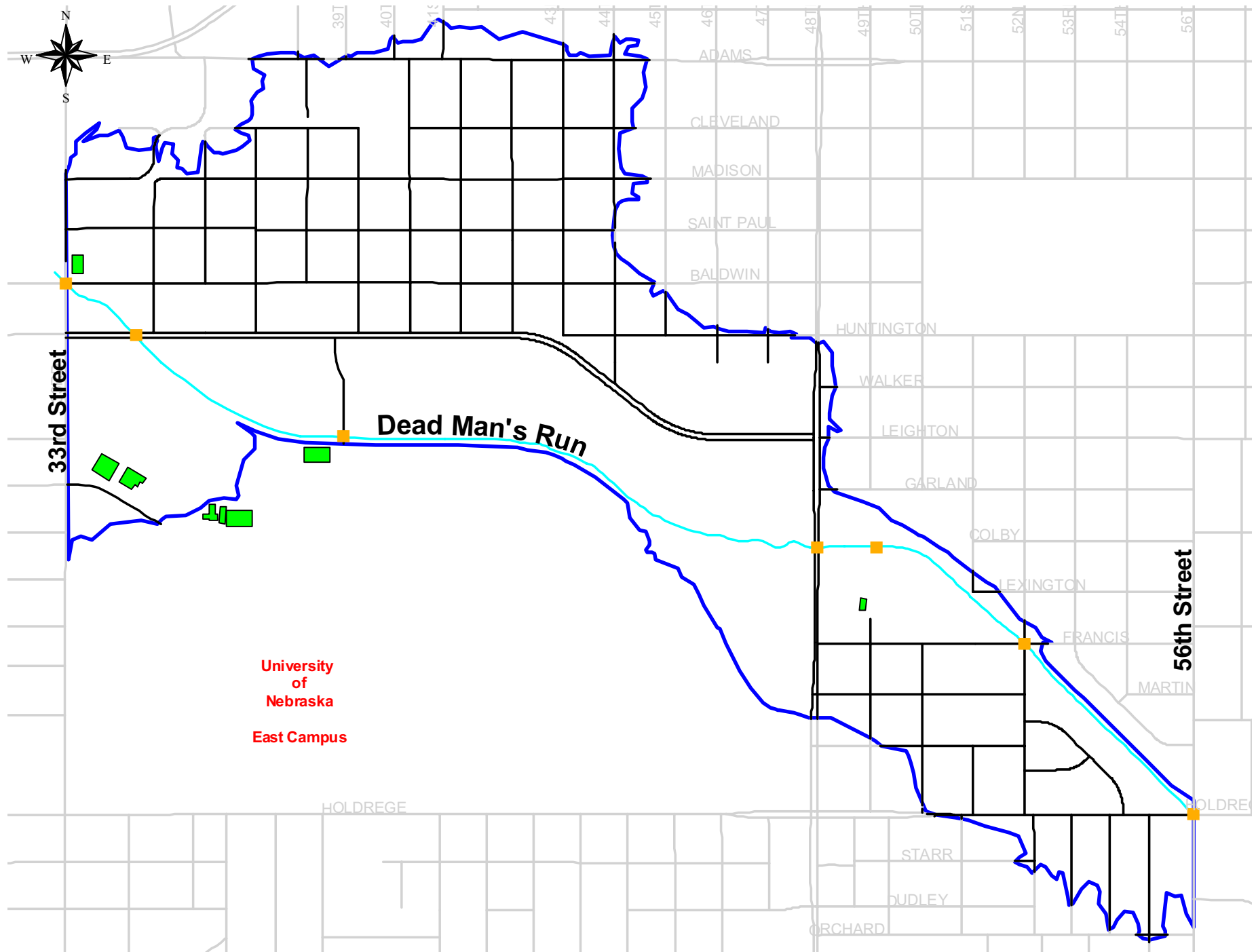


Stream Crossing Structures (cont)



Street Crossing Structures Flood Damage Evaluation

- ◆ Evaluate Under Sized Structures Only
- ◆ Engineering Cost Estimate
- ◆ Structure Spanned Existing Channel
 - ◆ Allowed Abutments in Floodplain
 - ◆ Included Cost for Fill
- ◆ Approach Streets (40:1)



Stream Crossing Structures Cost Estimate

Location	No Net Rise*	0.5 ft Rise	1.0 ft Rise
33 rd & Baldwin Culvert	\$0	\$0	\$0
Huntington Ave. Bridge	\$0	\$0	\$0
UNL – East Campus Bridge	\$0	\$0	\$0
48 th Street Bridge	\$0	\$927,000	\$1,016,000
Pedestrian Bridge	NA	NA	NA
52 nd & Francis St. Bridge	\$828,300	\$879,000	\$900,000
56 th & Holdrege Culvert	\$687,500	\$732,600	\$770,500
Total	\$1,515,800	\$2,538,600	\$2,686,500

* Compensatory storage cost included in No Net Rise Management Alternative

Public Infrastructure Cost Estimate

Type	No Net Rise*	0.5 ft Rise	1.0 ft Rise
Public Buildings	\$0	\$61,490	\$252,390
Public Access Streets	\$1,981,000	\$2,320,000	\$2,707,000
Stream Crossing Structures	\$1,515,800	\$2,538,600	\$2,686,500
Total	\$3,496,800	\$4,920,090	\$5,645,890

* Compensatory storage cost included in No Net Rise Management Alternative

^ Percent difference from existing regulation of 1-ft Rise

Questions and Answers